



## **WATER MANAGEMENT MONTHLY REPORT**

### **Information Exchange Bulletin**

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### **RESERVOIR OPERATION AND SYSTEM STATUS FOR FEBRUARY 2008**

**HIGHLIGHTS** – The Ohio River at Cairo began the month at a stage of 18.48 feet. The Cairo stage rose to crest at 43.17 feet on the 21<sup>st</sup> of the month before dropping to 32.21 feet at the end of the month. Flood stage at Cairo is 40 feet. A flood control operation was initiated on February 8<sup>th</sup> and concluded on February 25<sup>th</sup>.

**WEATHER** – During February, the weather was wetter than normal for the northern half of the Ohio River basin, while it was drier than normal south. Temperatures were slightly below normal to the north and west and slightly above normal in the south and east. Precipitation departures ranged from 1.16 inches below normal at Nashville, TN to 3.08 inches above normal at Pittsburgh, PA. The most significant precipitation events in the Ohio Valley were on the 1<sup>st</sup> and 2<sup>nd</sup>, the 4<sup>th</sup> through the 7<sup>th</sup>, the 12<sup>th</sup> through the 13<sup>th</sup>, the 17<sup>th</sup> through the 19<sup>th</sup>, the 22<sup>nd</sup> through the 23<sup>rd</sup>, and the 26<sup>th</sup> through the 27<sup>th</sup>. Most of the events were rainfall, however significant winter weather events with snow and ice occurred on the 13<sup>th</sup> through the 17<sup>th</sup> and the 22<sup>nd</sup> through the 23<sup>rd</sup>.

Ohio Valley temperatures averaged near normal to above normal during February. The temperatures ranged from -1.8 degrees below normal at Cincinnati, OH to 1.6 degrees above normal in Nashville, TN.

### **TEMPERATURE AND PRECIPITATION – FEBRUARY 2008**

<b>STATION</b>	<b>TEMPERATURE</b>		<b>PRECIPITATION</b>	
	<b>OBSERVED DEGREES F</b>	<b>DEPARTURE FROM NORMAL</b>	<b>OBSERVED INCHES</b>	<b>DEPARTURE FROM NORMAL</b>
Pittsburgh, PA	29.4	-1.1	5.45	+3.08
Charleston, WV	38.0	+1.1	4.62	+1.43
Columbus, OH	31.0	-1.0	3.88	+1.68
Cincinnati, OH	32.3	-1.8	5.21	+2.46
Louisville, KY	37.5	-0.1	4.87	+1.62
Indianapolis, IN	29.8	-1.4	4.34	+1.93

Evansville, IN	35.3	-0.5	5.97	+2.87
Nashville, TN	42.9	+1.6	2.53	-1.16

**STREAMFLOW** – Stream flow throughout the Ohio River during February began above normal, before dropping below normal for several days. A series of systems from the middle to the end of the month then raised flows above normal. The monthly average flows ranged from a low of 110 percent of normal at Paducah, KY to a high of 161 percent of normal at Pittsburgh, PA. Daily flows ranged from a low of 42 percent of normal at Paducah, KY to a high of 392 percent of normal at Pittsburgh, PA. The following table presents the flow data summary for February at the Ohio River Index Stations:

**FLOW DATA – FEBRUARY 2008**

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND		HIGH	LOW
Pittsburgh, PA	79,000	161	392	86
Huntington, WV	166,000	129	258	80
Cincinnati, OH	220,000	133	233	86
Louisville, KY	267,000	138	227	79
Evansville, IN	321,000	138	210	67
Paducah, KY	524,000	110	151	42

**RESERVOIRS** – February began with 3.8% utilization of the total system flood control storage and ended the month at 4.2%. System-wide augmentation storage availability began at 99.7% at the beginning of the month and was at 98.6% by the end of the month.

The following table depicts storage change by tributary reservoir subsystem for February:

<b>CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM</b>	<b>(ACRE-FEET)</b>
Allegheny-Monongahela-Beaver	-300
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+29,700
Twelvepole-Big Sandy-Little Sandy-Scioto	-10,700
Little Miami-Licking-Mill Creek-Great Miami	-10,800
Kentucky-Salt-Green-Wabash	+76,000
Cumberland	+191,000
<b>TOTAL</b>	<b>+274,900</b>

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